



SWARC NEWS

Meeting Notes

SWARC held its monthly meeting on 7 May 2018 at the American Legion Post in Fuquay Varina.

Howdy Y'all

If you missed the monthly meeting then you missed out on a great picnic. David and Little Joe did a great job on the hamburgers and hot dogs. Joe did a super job on the 5 second rule every time David dropped something (just kidding folks). Joe got to it in 3 seconds or less and ate most of what he picked up. Those that he did not eat he made sure Harley got.

Since this was the Spring/Summer picnic very little business was discussed. We did talk about the raffle and how many tickets where left. That worked because we manage to sell a few more. See Brian about tickets.

Jason talked about the swag he had. Some nice looking t-shirts. He said that they were only \$100.00 (\$10.00) each. My wife got me four of them. No I did get one though. See Jason about the swag.

Brian talked about Field Day. It takes place the 23 – 24 June and will be held at the American Legion Post in Fuquay-Varina. If you would like to set up a station or just operate pleas let Brian, KK4BK know. We decided that the evening meal was going to be pulled pork and we are asking that sides be brought.

Danny brought us up to date on the repeater.

South Wake Amateur Radio Club Treasurer Report
April 2018

Club Addition and Reduction Activity

Additions

Meal	95.00	cash	collection for meal
Dues	10.00	cash	Melvin Hudgins (no call sign)
Total Additions	105.00		

Reductions

Meal cost	108.66	check #1657	reimbursed David Sosnin (N4TTN)
T-shirts	266.88	check #1658	Vinyl Vision Concepts (t-shirts for Field Day)
Raffle Prizes-HRO	604.85	check #1659	Kenwood TM-281A; Kenwood TM-V71A; Tigertronics SE USB RJ45

Total
Reductions 980.39

RBC Bank Account Activity

Balance as of 04/02/2018	4054.19		
Addition	105.00		
Reduction	980.39		

Balance as of
05/07/2018 3178.80

Christine Fernandini KJ4AEO
05/07/2018

NET Report

No NET Report has been submitted there is nothing to report other than NETs were held.

Our NET Whip is working on the problem. Please we ask that all net reports be sent to Jonathan at sharpsburg1130@gmail.com

A big thank you to Jonathan for stepping up.

Jonathan, W1JCA is on the lookout for new net control operators. If interested please contact Jonathan, W1JCA.

Membership Report

Ryan, NC4RA informed us that we currently had 101 members.

Public Service

Legion Family,

Not to sound like I'm still beating a dead horse, but we are still very much in need of support for this event, especially at our membership tent. Our Boy Scout Troop and Team Deuce will be onsite almost all weekend, but don't make them spend it alone!

Below is that current roster (white space means no one has signed up yet):

Date/Time	Membership	Membership	Membership	Membership
Friday 3-5PM				
Friday 5-7PM				
Friday 7-Close				
Saturday 10-12				
Saturday 12-2				
Saturday 2-4				
Saturday 4-6				
Saturday 6-8				
Saturday 8-10				
Sunday 10-12				
Sunday 12-2				
Sunday 2-4				
Sunday 4-6				
Sunday 6-8				
Sunday 8-10				

If you can find some time this weekend to spend with us just sharing with the almost 100K patrons about what it means to be a member of the Legion and the Legion Family please let me know or sign up online here: <http://alpost116nc.org/index.php/2018-balloon-festival/>.

One of the perks is we have some great parking available to our volunteers (you can't legally park any closer to the Balloon Field than Bob Cohn's house) and once you're done volunteering you can hang out and enjoy the rest of the festival knowing its a much shorter walk back to your car. This is a huge event for our community and for our Post as we take some time to recognize and remember those service members who have gone before us and paid the ultimate price to defend our way of life. This is a FAMILY effort, so the Sons and the Auxiliary are absolutely encouraged to participate and help us. We are very much a FAMILY Post and recruiting new members is a FAMILY effort! I hope to see you all there this weekend

CDR

DERRIC GRIMES

COMMANDER, AMERICAN LEGION POST 116

FUQUAY-VARINA, NC

6400 Johnson Pond Road

Fuquay-Varina, NC 27526

Legion Family,

Recently there have been a number of studies out there about suicides and veterans and the rising epidemic of veterans taking their own lives. I know many of us, myself included, have experienced loss at the hands of this totally preventable disease

To help with this, the Centers for Disease Control (CDC) in Atlanta reached out to our Post last week to see if we had anyone who would be willing to help.

The Centers for Disease Control and Prevention's [Injury Center](#) is working with [The Lab at OPM](#) (Office of Personnel Management) to carry out a pilot project around veteran suicide prevention. We will be traveling to several communities across the United States to listen to and connect with veterans. We would like to have about one-hour, one-on-one conversations with veterans and/or their families to explore their experiences transitioning back into civilian life and their sense of connectedness (their support system) during that time. This information will be used internally at CDC's Injury Center to figure out what role public health might play in better supporting young veterans in the future. Please note—this project is not research. Anything you share will remain anonymous and kept secure.

They will be at our Post on Thursday Afternoon/Evening and want to talk to YOU! It doesn't matter if you're a Vet, Family member, or just have a story to share about how the support structure veterans have at home helped (or maybe didn't).

Again, everything is 100% confidential and it is NOT research, just an opportunity to help shape the framework further so we can do more to help veterans and their families

If you're available and interested, from 530 PM until we're done Thursday Evening this week (24May) (there are other times available), please let me know so we can set up times for you to speak with the folks coming.

CDR

DERRIC GRIMES
COMMANDER, AMERICAN LEGION POST 116
FUQUAY-VARINA, NC
6400 Johnson Pond Road
Fuquay-Varina, NC 2752

Vice President

Nothing to report

Next Meeting

The next meeting will be June 4, 2018. Dinner will start at 6 pm. Meal will be pizza. Be sure to sign up so we know how many hamburgers and hotdogs we will need. Also when you sign up let us know if you are bringing a side dish. This is our election meeting. So bring your democratic ticket and vote more than once if needed. As it stood at the last meeting here is who is running:

President....Mike, K4MWG

Vice President....Open

Secretary....Open

Treasurer....Christy, KJ4AEO

Membership Chairmen....Ryan, NC4RA

Member-at-L:arge(4 positions)....Open

Club Cook....Open

Net Whip....Jonathan, W1JCA???

Special Event Director....Gino, KI4YXO

Public Service Director....Open

FT8 Activity Bumping Up at Some Expense to Other Modes

05/17/2018

Despite largely dismal HF conditions, there is no doubt that the recent FT8 digital protocol has made hams more enthusiastic about getting on the air. The mode has caught on so quickly that co-developer Joe Taylor expressed surprise last fall at the rapid uptake of FT8 for making contacts on HF bands. Judging by Logbook of The World (LoTW) data, more than 2.3 million FT8 contacts were uploaded in 1 month — a net gain of 1.2 million contacts on all modes over the same month last year, ARRL Radiosport Manager Norm Fusaro, W3IZ, said. Over the same period, activity in some of the other modes has declined.

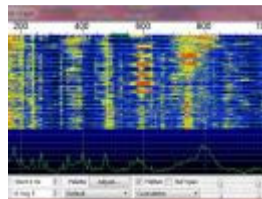
“Year-to-date DXCC applications are up by 11% over the same period last year,” Fusaro said. “So far, we have processed 898 Worked All States (WAS) applications —

a 72% increase over the same period last year. Of those applications 347 — or 39% — were FT8 endorsements. Application for VUCC are also up by 33% over 2017.”

Fusaro said that while some feel that FT8 is “taking over the world,” subsuming all other modes, that’s not the case. “Activity in the traditional modes of SSB and CW has decreased only slightly, by 10%,” he said. “The *real* decrease is in RTTY and PSK activity and in the other *WSJT-X* modes. I believe poor propagation would have cut into SSB and CW activity, regardless of the new mode.” Anecdotal reports support Fusaro’s hard numbers, with wall-to-wall signals surrounding the FT8 watering holes. Late last year, Denny Berg, WB9MSM, achieved his goal of completing DXCC using FT8. It took him just 4 months.

“I can tell all of you that this mode is spreading like wildfire throughout all the HF bands,” Berg told *The Daily DX* at the time. He said he was able to work all states on FT8 in about 6 weeks of operating.

Taylor has characterized SSB and CW as “general-purpose modes” that are good for ragchewing, DXing, contesting, disaster communication, and other purposes. On the other hand, he has said, FT8 and the other protocols in the *WSJT-X* suite are “special-purpose modes,” designed for making reliable, error-free contacts using signals that may be too weak to work using more traditional modes — and sometimes even too far down in the noise even to hear.



Post-Launch Signals Received as Amateur Radio Heads to Moon

05/21/2018

China has launched two microsatellites into a lunar transfer orbit. They launched as secondary payloads with the *Queqiao* relay satellite on May 20, in conjunction with the Chang’e 4 mission to the far side of the moon. Once in lunar orbit, DSLWP-A1 and DSLWP-A2 (DSLWP = Discovering the Sky at Longest Wavelengths Pathfinder) — also known as *Longjiang-1* and *Longjiang-2* — will test low-frequency radio astronomy and space-based interferometry. They carry Amateur Radio and educational payloads, but not a transponder. The Chang’e 4 mission will be the first-ever attempt at a soft landing on the far side of the moon.

Following deployment, signals from the DSLWP satellites were received by radio amateurs in Brazil, Chile, and the US, as well as by many others around the world. Harbin Institute of Technology (BY2HIT) developed and built the DSLWP spacecraft and is overseeing that mission. The two microsats eventually will enter a 300 × 9,000 kilometer elliptical orbit. Each satellite carries VHF/UHF SDR transceivers for beacon, telemetry, telecommand, and digital image downlink, plus a GMSK-JT4 repeater. Onboard transmitting power is about 2 W.

The astronomy objectives of the two spacecraft are to observe the sky at the lower end of the electromagnetic spectrum — 1 MHz to 30 MHz — with the aim of learning about energetic phenomena from galactic sources, using the moon to shield them from earthbound radio signals.

An open telecommand protocol on the spacecraft is designed to allow radio amateurs to send commands to take and download images. DSLWP-A1 downlinks are 435.425 MHz and 436.425 MHz; DSLWP-A2 downlinks are 435.400 MHz and 436.400 MHz. They will use 250/500 bps GMSK using 10 kHz wide FM single-channel data, with concatenated codes or JT4G. JT4 uses four-tone FSK, with a keying rate of 4.375 baud; the JT4G sub-mode uses 315 Hz tone spacing and 1,260 Hz total bandwidth.

The *Queqiao* communications relay satellite is required for the lunar far-side landing to facilitate communication with a not-yet-launched lander and rover because the moon's far side never faces Earth, and some significant scientific measurements from the dark side of the moon require real-time contact with Earth. *Queqiao* was developed by the China Academy of Space Technology (CAST).

Harbin Institute of Technology Amateur Radio Club hopes that radio amateurs will get involved with the DSLWP mission, and QSL cards have been designed for different flight phases for amateurs who successfully receive telemetry or make contact.



For men who think that a
women's place is in the
kitchen, Please remember:
That's where the knives
are kept.



BOARD OF DIRECTORS

President

Jason Upchurch – KM4PFV

Vice President

Brian Knox – KK4BK

Secretary

Nancy Butterfield – KM4KUT

Treasurer

Christy Fernandini - KJ4AEO

Member-At-Large

Steve Mowels – KA0GMY

Member-At-Large

Jim Young – K9RII

Member-At-Large

John Cook – N4RMV

Membership Chair

Ryan Avery , NC4RA

Appointed Positions

NET MANAGER

Jonathan – W1JCA

Special Events Director

Gino Fernandini –KI4YXO

Public Service Director

Tim Ruffin – W4TAR

Mike Ramsey – KD4OKR

Chris Picar - K4CLP

SWARC Mission Statement

South Wake ARC's primary purpose is to further the Amateur Radio Service through programs, activities, and education, in order to promote the radio knowledge, fraternalism and individual operating efficiency of our members. Further, it shall be our purpose to support the welfare of our community through public service including radio communications for emergency situations and public events, and through providing information, training, and assistance to individuals or organizations with an interest in the Amateur Radio Service.

LINKS *(if you have other links you want added then send them to me)*

PRN

A Wide Area Digital Amateur Radio Network www.ncprn.net

GigaParts www.gigaparts.com

QRZ www.qrz.com

Ham Radio Outlet HRO www.hamradio.com

Raleigh Amateur Radio Society RARS www.rars.org

Johnson Amateur Radio Society JARS www.jars..net

South Wake Amateur Radio Club SWARC www.southwakearc.com

A Few Pictures from the Picnic





